

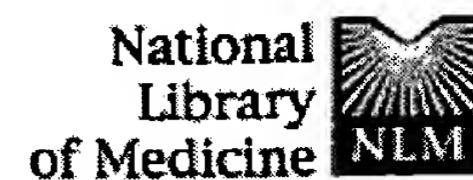
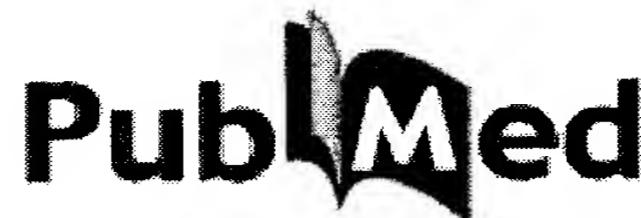
09/667,569 SEARCH RESULTS/HISTORY

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT
13:35:40 ON 04 MAR 2003

L1 272 S (PANTOTHENATE (W) KINASE) OR (PANTOTHENIC (W) ACID (W) KINASE
L2 63 S L1 AND (MUTANT OR MUTAGENESIS OR MUTATION OR SUBSTITUT? OR RE
L3 26 DUP REM L2 (37 DUPLICATES REMOVED)

=>

| | Hits | Search Text | DBs |
|----|-------|---|---------------------------------------|
| 1 | 2 | pantothenate near10 bacillus | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 2 | 6 | pantothenate and pane | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 3 | 27450 | ((2-oxopantoate or 2-ketopantoate or ketopantoate) adj reductase) or (((2-ketopantoic adj acid) or (ketopantoic adj acid)) adj reductase) or pane! | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 4 | 3601 | ((2-oxopantoate or 2-ketopantoate or ketopantoate) adj reductase) or (((2-ketopantoic adj acid) or (ketopantoic adj acid)) adj reductase) or pane!) and panto\$ or pantothenate | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 5 | 53 | "13" and overexpress | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 6 | 9 | ((2-oxopantoate or 2-ketopantoate or ketopantoate) adj reductase) or (((2-ketopantoic adj acid) or (ketopantoic adj acid)) adj reductase) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 7 | 2 | 5518906.pn. | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 8 | 19 | panto\$ and (coax or (pantothenate adj kinase)) | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 9 | 333 | kinase and reductase and panto\$ | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 10 | 32 | kinase near10 reductase and panto\$ | USPAT; US-PGPUB; EPO; JPO; DERWENT |
| 11 | 12 | (pantothenate adj kinase) or (pantothenic adj acid adj kinase) | USPAT; US-PGPUB; EPO; JPO; DERWENT |



| | | | | | | | | |
|---|------------|---------|--------|---|-----|----------|------|-------|
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|--------|---|----------|---------------------|
| | #23 Related Articles for PubMed (Select 2842294) | 13:41:15 | 114 |
| | #21 Search Vallari and Jackowski | 13:41:00 | 2 |
| | #19 Related Articles for PubMed (Select 2824448) | 13:26:40 | 160 |
| | #17 Search "pantothenate kinase" and mutation | 13:25:33 | 12 |
| | #16 Search "pantothenate kinase" and substitution | 13:25:26 | 0 |
| | #15 Search "pantothenate kinase" and mutagenesis | 13:24:32 | 3 |
| | #14 Search pank and kinase and mutagenesis | 13:24:17 | 0 |
| | #13 Search pank and kinase and substitution | 13:24:10 | 0 |
| | #12 Search pank and kinase and mutant | 13:24:00 | 1 |
| | #11 Search pank and kinase and mutation | 13:23:47 | 1 |
| | #9 Search #7 AND mutant | 13:21:45 | 19 |
| | #8 Search #7 and mutant | 13:21:35 | 113 |
| | #7 Related Articles for PubMed (Select 1328157) | 13:21:22 | 113 |
| | #4 Related Articles for PubMed (Select 7929447) | 13:19:31 | 257 |
| | #2 Search #1 AND mutant | 13:18:05 | 5 |
| | #1 Search "pantothenate kinase" | 13:17:42 | 56 |

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Feb 19 2003 14:38:47

IUBMB Enzyme Nomenclature

EC 2.7.1.33

Common name: pantothenate kinase

Reaction: ATP + pantothenate = ADP + D-4'-phosphopantothenate

Other name(s): pantothenate kinase (phosphorylating); pantothenic acid kinase

Systematic name: ATP:pantothenate 4'-phosphotransferase

Links to other databases: [BRENDA](#), [EXPASY](#), [KEGG](#), [WIT](#), CAS registry number: 9026-48-6

References:

1. Abiko, Y., Ashida, S.-I. and Shimizu, M. Purification and properties of D-pantothenate kinase from rat liver. *Biochim. Biophys. Acta* 268 (1972) 364-372. [Medline UI: [72185304](#)]
2. Brown, G.M. The metabolism of pantothenic acid. *J. Biol. Chem.* 234 (1959) 370-378.
3. Pierpoint, W.S., Hughes, D.E., Baddiley, J. and Mathias, A.P. The phosphorylation of pantothenic acid by *Lactobacillus arabinosus* 17-5. *Biochem. J.* 61 (1955) 368-374.

[EC 2.7.1.33 created 1961]

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